

U.S. Weather bureau.

MONTHLY WEATHER REVIEW,

JULY, 1872.



WAR DEPARTMENT,

Office of the Chief Signal Officer,

DIVISION OF

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TELEGRAMS AND REPORTS FOR THE BENEFIT OF COMMERCE AND AGRICULTURE.

STORMS.

During this month eleven storm-centres have traversed portions of the country east of the Rocky Mountains, having been traced in their progress upon the War Department Weather Maps, Signal Service, U. S. Army. These disturbances were mostly but comparatively slight atmospheric depressions, causing but little danger to commercial interests, although attended by occasional local storms of considerable severity. In central Indiana, Ohio, Pennsylvania, northern New Jersey, and southeastern New York these local storms have been particularly numerous. With a single exception the barometric depressions or storm-centres of this month have been confined to the northern sections of the country, moving from the northwest eastward over the Lake region, Pennsylvania, or New York, New England, and the British provinces. The remaining one progressed slowly northward from the Gulf to western Tennessee, where it disappeared, causing very heavy rains in southern Alabama. No cautionary signals have been displayed during the month.

RAINFALL.

The rainfall returns for this month, compared with the mean rainfall for July, show that there has been a great deficiency of rain, varying from two to five inches in Virginia, Maryland, Florida, and on the coasts of Georgia and South Carolina. The figures exhibit a lesser deficiency, varying from one-half inch to two inches in Louisiana, southwestern Mississippi, eastern Tennessee, western New York, and western Oregon. An excess of rain has fallen in Alabama, western Tennessee, interior portions of Georgia and South Carolina, eastern Kansas, northern Missouri, central portions of Illinois and Indiana, Ohio, Pennsylvania, northern New Jersey, eastern New York, New England, and from Dakota to upper Michigan. This surplus amounts to 6.00 inches at Mobile; 3.56 inches at Key West; 5.77 inches at Leavenworth; 7.12 inches at Indianapolis; 3.15 inches at Cleveland; 2.81 inches at Cincinnati; 4.75 inches at Pittsburg; 5.24 inches at Philadelphia; 4.65 inches at New York, and 2.89 inches at Burlington, Vt., but is less in the other sections mentioned. About the usual quantity of rain has fallen over the country extending from lower Michigan westward to Nebraska.

TEMPERATURE.

The mean temperature for this month compared with the mean temperature for July, as ascertained by a long series of observations, shows that over the entire country stretching from the Atlantic to the western plains, excepting, perhaps, upper Michigan, the month has been an unusually warm one. This excess of heat has been greatest in the Ohio valley and from North Carolina to Lake Ontario and southern New England, amounting to 4° above the mean for the month at Louisville; $3^{\circ}.6$ at Cincinnati; $5^{\circ}.7$ at Washington; $3^{\circ}.2$ at Norfolk; $4^{\circ}.7$ at Baltimore; $3^{\circ}.6$ at Philadelphia; 3° at New London; $2^{\circ}.7$ at Boston, and $2^{\circ}.5$ at Toronto; at other stations east of the Rocky Mountains it varies from $0^{\circ}.1$ to $3^{\circ}.7$, averaging about 2° . At the Rocky Mountain stations and on the Pacific coast the month has been cooler than usual, the greatest observed differences being 6° at San Diego and 5° at Santa Fé, N. Mex., while at San Francisco and Portland, Oreg., it is only about 1° below the mean for the month.

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